10/18/2006 17:52 FAX 7132288778

Application No.: 10/037,800

OCT 18 2006

CENTRAL FAX CENTER

Docket No.: 16159/035001; P6566

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) A method for conveying a security context, comprising:
 - obtaining a virtual address associated with a process executing on a recipient computer system;
 - issuing a first Internet Protocol version compliant packet, wherein the first Internet Protocol version compliant packet comprises a first Internet Protocol version compliant header, wherein the first Internet Protocol version compliant header comprises a security context, wherein the security context comprises a Supernet identifier, a Channel identifier, and the virtual address, and wherein data in [[the]] a payload of the first Internet Protocol version compliant packet is encrypted using the Supernet identifier and the Channel identifier to obtain an encrypted payload;
 - issuing a second Internet Protocol version compliant packet, wherein the second Internet Protocol version compliant packet comprises a second Internet Protocol version compliant header, wherein the second Internet Protocol version compliant header comprises a second Internet Protocol version compliant address of the recipient computer system, wherein a payload of the second Internet Protocol version compliant packet comprises the first Internet Protocol version compliant packet, and prepending an issued packet with a second Internet Protocol version header producing a second Internet Protocol version compliant packet, wherein the first Internet Protocol version is different from the second Internet Protocol version; and
 - forwarding the second Internet Protocol version compliant packet to the recipient computer system,
 - wherein the security context is used by the recipient computer to decrypt the encrypted payload.

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2. (Original) The method of claim 1, wherein the first Internet Protocol version compliant packet is Internet Protocol version 6 compliant packet.

- 3. (Original) The method of claim 1, wherein the second Internet Protocol version compliant packet is Internet Protocol version 4 compliant packet.
- 4. (Previously Presented) The method of claim 1, wherein issuing the first Internet Protocol version compliant packet further comprises:

invoking a Supernet Attach Command on an authentication server daemon;
receiving, in response to the Supernet Attach Command, Supernet configuration
information comprising the security context; and
registering a mapping of the Supernet configuration information with a virtual

registering a mapping of the Supernet configuration information with a virtual address daemon.

- 5. (Cancelled)
- (Previously Presented) The method of claim 1, wherein the security context comprises a 128 bit unique value.
- 7. (Previously Presented) The method of claim 6, wherein the 128 bit unique value comprises a 16 bit set and a 112 bit set.
- 8. (Original) The method of claim 7, wherein the 16 bit set denotes a site local Internet protocol address comprising 12 bits for an address prefix followed by 4 bits for a zero value.
- 9. (Original) The method of claim 7, wherein the 112 bit set comprises contiguous bits for the Supernet identifier, the Channel identifier, and the virtual address.
- 10. (Original) The method of claim 7, wherein the 112 bit set comprises a 64 bit Supernet identifier, a 24 bit Channel identifier, and a 24 bit virtual address.
- 11. (Original) The method of claim 4, wherein the virtual address daemon maps the virtual address of the recipient process within the Supernet to an actual Internet protocol address.

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- 12. (Cancelled) 29. (Cancelled)
- 30. (Currently Amended) A method for processing a security context, comprising:
 - Protocol version compliant header and a first Internet Protocol version compliant payload, wherein the first Internet Protocol version compliant payload comprises encapsulated by a second Internet Protocol version compliant packet, wherein the first second Internet Protocol version compliant packet, wherein the first second Internet Protocol version compliant packet comprises encrypted data and a second Internet Protocol version compliant header comprising a security context, wherein the security context comprises a virtual address, a Supernet identifier, and a Channel identifier,
 - extracting the encrypted data and the security context from the first second Internet

 Protocol version compliant packet encapsulated by the second Internet

 Protocol version compliant packet;
 - decrypting the encrypted data, by a recipient computer system, in the first Internet

 Protocol version compliant packet using the Supernet identifier and Channel
 identifier to obtain decrypted data; and
 - routing the decrypted data to a process in the recipient computer system using the virtual address.
 - wherein the first Internet Protocol version compliant header comprises a first Internet

 Protocol version compliant address used to route the first Internet Protocol

 version compliant packet to the recipient computer system.
- 31. (Previously Presented) The method of claim 30, wherein the security context comprises a 128 bit unique value.
- 32. (Previously Presented) The method of claim 31, wherein the 128 bit unique value comprises a 16 bit set and a 112 bit set.

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- 33. (Previously Presented) The method of claim 32, wherein the 16 bit set denotes a site local Internet protocol address comprising 12 bits for an address prefix followed by 4 bits for a zero value.
- 34. (Previously Presented) The method of claim 32, wherein the 112 bit set comprises contiguous bits for the Supernet identifier, the Channel identifier, and the virtual address.
- 35. (Previously Presented) The method of claim 32, wherein the 112 bit set comprises a 64 bit Supernet identifier, a 24 bit Channel identifier, and a 24 bit virtual address.
- 36. (Currently Amended) The method of claim 30, wherein the security context is obtained from first the second Internet Protocol version compliant packet using a handler mechanism.
- 37. (Previously Presented) The method of claim 34, wherein the handler mechanism is a Netfilter.